



Excellence in Compliance Testing

5015 B. U. Bowman Dr.  
Buford, GA 30518

October 17, 2012

ACS TCB  
5015 B.U. Bowman Drive  
Buford, GA 30518

Re: FCC ID: SM6-HOTRODV2AG

To Whom It May Concern:

The following application is submitted on behalf of our client, Mueller Systems, for evaluation of their model AHRAG-DL for certification under FCC Part 15.249 for a class II permissive change.

The purpose of this permissive change is to address component value and tolerance changes in the RF circuitry. An updated schematic is provided to document the changes.

The AHRAG-DL remote meter reading transmitter was designed to allow the utility to receive data from any Mueller water meter equipped with a Translator register. The transmitter collects data from the register and transmits it via radio frequency (RF) to be collected by a mobile receiver.

The AHRAG-DL was tested in full to the requirements of the aforementioned rules, as applicable to the class II permissive change, and was found to be in compliance.

Sincerely,

A handwritten signature in black ink that reads "R. Sam Wismer". The signature is written in a cursive style with a large initial 'R'.

Sam Wismer  
Vice President, Technology  
Advanced Compliance Solutions, Inc.



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## Changes Made For Class 2 Permissive Change

The following changes were made to the product and tested for a Class 2 Permissive Change:

1. Component reference C12 was changed from a 33pF 5% tolerance capacitor to a 33pF 1% tolerance capacitor.
2. Component reference C16 was changed from a 5.6pF  $\pm 0.25$ pF tolerance capacitor to a 5.1pF  $\pm 0.1$ pF tolerance capacitor.
3. Component reference C19 was changed from a 3.9pF  $\pm 0.25$ pF tolerance capacitor to a 3.3pF  $\pm 0.1$ pF tolerance capacitor.
4. Component reference C20 was changed from a 3.9pF  $\pm 0.25$ pF tolerance capacitor to a 3.6pF  $\pm 0.1$ pF tolerance capacitor.
5. Component reference L2 was changed from a 12.0nH 5% tolerance inductor to a 12.0nH 2% tolerance inductor.
6. Component reference L3 was changed from a 18.0nH 5% tolerance inductor to a 16.0nH 2% tolerance inductor.
7. Component reference L4 was changed from a 13.0nH 5% tolerance inductor to a 13.0nH 2% tolerance inductor.
8. Component reference L5 was changed from a 5.1nH 5% tolerance inductor to a 5.1nH 2% tolerance inductor.
9. The antenna length was changed from a length of 85mm  $\pm 0.2$ mm to a length of 84.5mm  $\pm 0.5$ mm